

I claim:

1 1. A method of grooving a web of a foldable material
2 which comprises the steps of:
3 advancing a continuous web of a foldable material along
4 a path; and
5 impressing a succession of grooves into said foldable
6 material at a location along said path alternately from opposite
7 sides of said web.

1 2. The method defined in claim 1, further comprising
2 the step of folding said web at folds spaced apart corresponding
3 to the spacing of two grooves on opposite sides of said web.

1 3. The method defined in claim 1 wherein the grooving
2 of the foldable material is effected during continuous advance of
3 the foldable material.

1 4. An apparatus for grooving a web of foldable
2 material to form spaced apart grooves on opposite sides of said
3 web alternately, said apparatus comprising:
4 a pair of rotating bodies having said web passing
5 between them;
6 a positive and a negative grooving tool on each of said
7 bodies positioned to register with one another so that said web

8 is impressed between a positive and a negative tool on each side
9 of said web alternately to form grooves in said web alternately
10 from opposite sides; and

11 means for synchronizing rotation of said bodies with
12 one another.

1 5. The apparatus defined in claim 4 wherein the bodies
2 are synchronized by electronic coupling of respective drives or
3 by means of gearing.

1 6. The apparatus defined in claim 4, further
2 comprising means for passing an axial spacing of said bodies.

1 7. The apparatus defined in claim 6 wherein said
2 bodies are mounted on a pair of arms defining a variable opening
3 angle between them.

1 8. The apparatus defined in claim 7, further
2 comprising at least one threaded spindle between said arms for
3 adjusting the axial spacing of said body.

1 9. The apparatus defined in claim 4 wherein said tools
2 are variably displaceable radially on said bodies.

1 10. The apparatus defined in claim 9 wherein said
2 tools are radially shiftable relative to one another by
3 respective toothed racks.

1 11. The apparatus defined in claim 9 wherein the
2 radial shifting of said tool is effected by at least one threaded
3 spindle.

1 12. The apparatus defined in claim 4 wherein each of
2 said bodies is a rectangular body having shaft stubs at opposite
3 ends thereof.

1 13. The apparatus defined in claim 4 wherein each of
2 said tools is formed on an L-shaped tool carrier.

1 14. The apparatus defined in claim 9 wherein each of
2 said bodies comprises at least one pair of oppositely disposed L-
3 shaped tool carriers.

1 15. The apparatus defined in claim 4, further
2 comprising respective wedge-shaped clamping plates shiftable in a
3 direction of the axis of the respective body for securing the
4 respective tool in place.

1 16. The apparatus defined in claim 4, further
2 comprising feed rollers engaging said web for advancing same.

1 17. The apparatus defined in claim 16 wherein said
2 feed rollers are synchronized in rotation with said bodies.

1 18. The apparatus defined in claim 17 wherein said
2 feed rollers are synchronized with said bodies by electronic
3 synchronization circuitry for drives of said bodies and said feed
4 roller or by gearing.

1 19. The apparatus defined in claim 4 wherein an axial
2 spacing of said feed rollers is adjustable.